

20250929/2025

FIG. 1

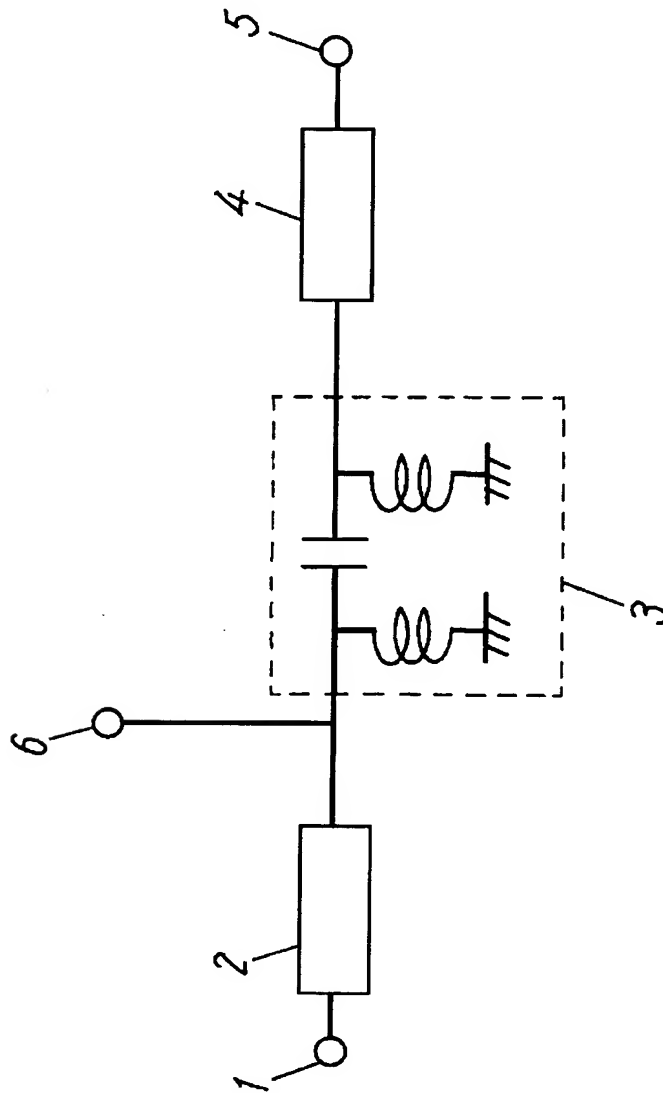
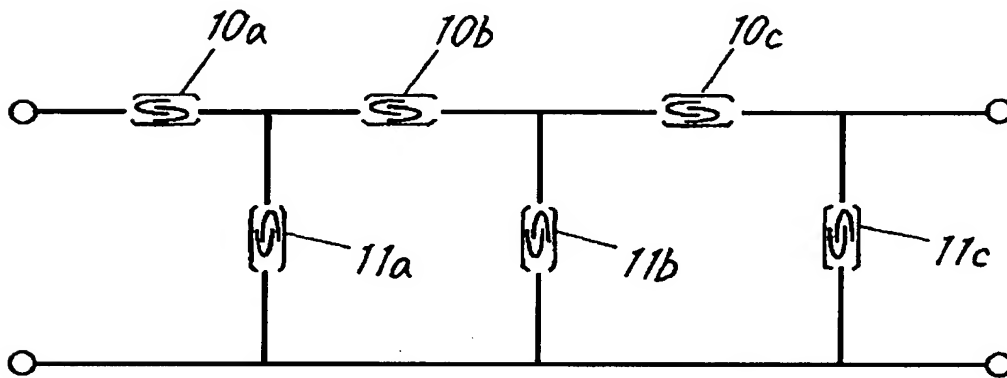


FIG. 2



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FIG. 3

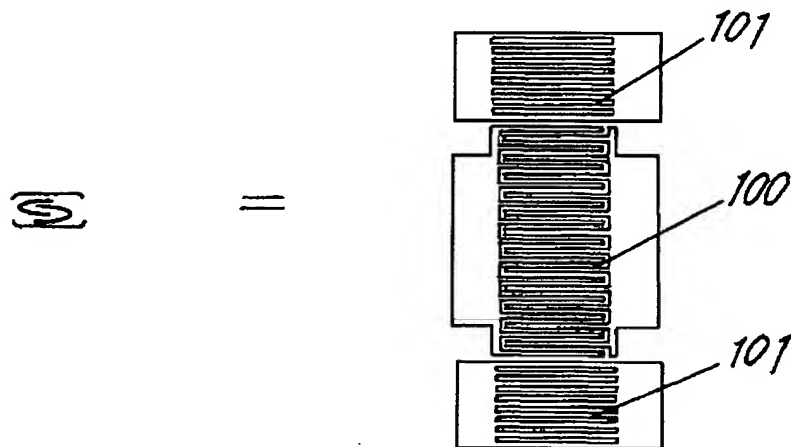


FIG. 4

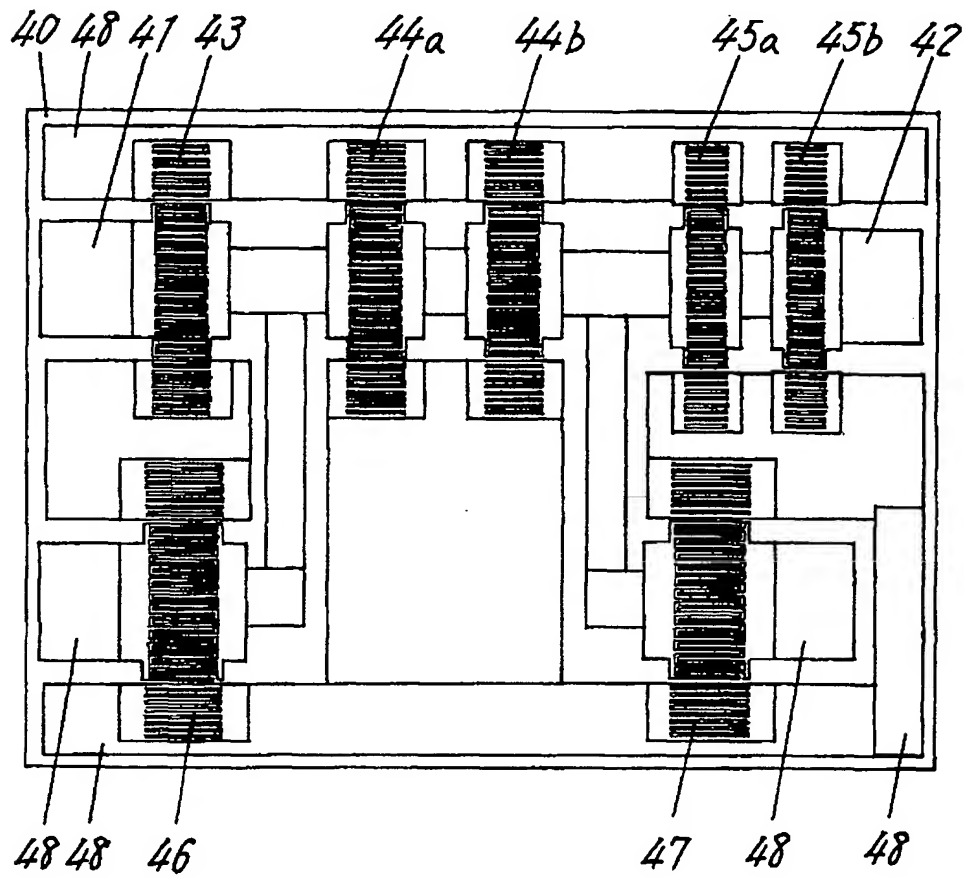


FIG. 5

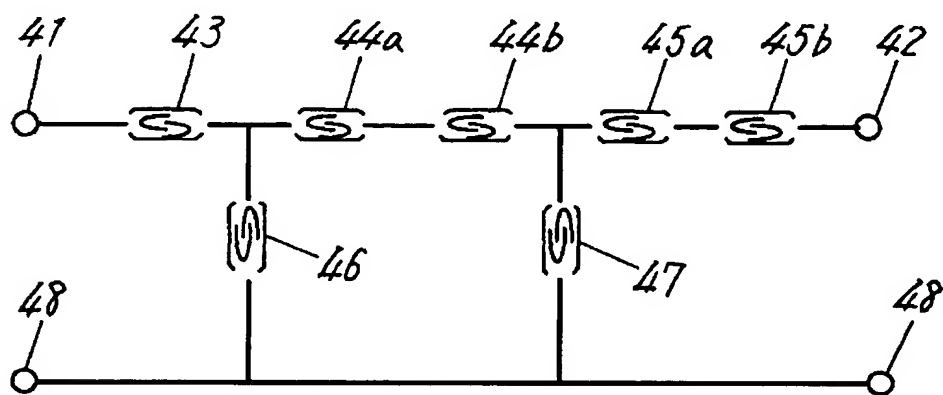


FIG. 6

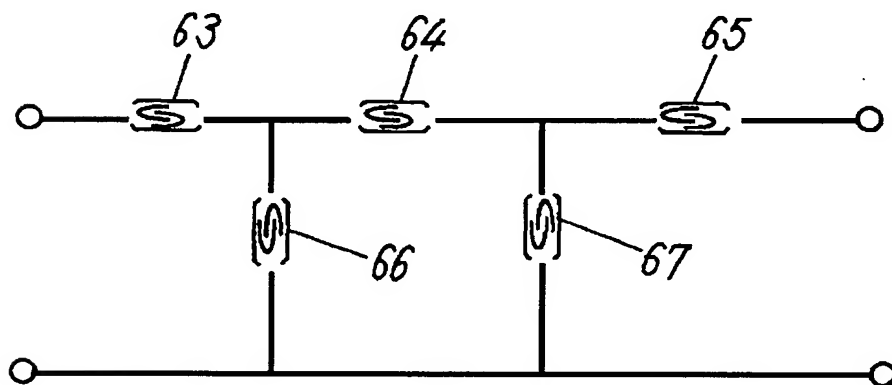
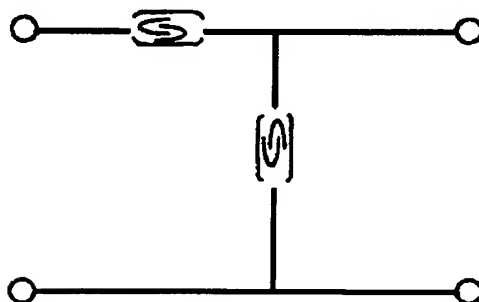


FIG. 7



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FIG. 8

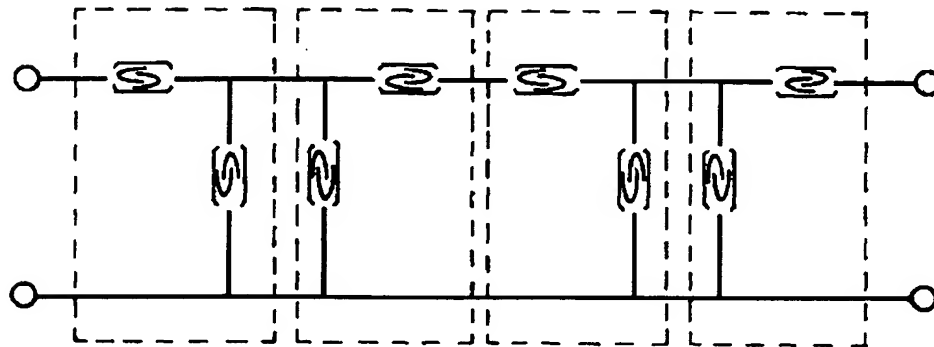


FIG. 9

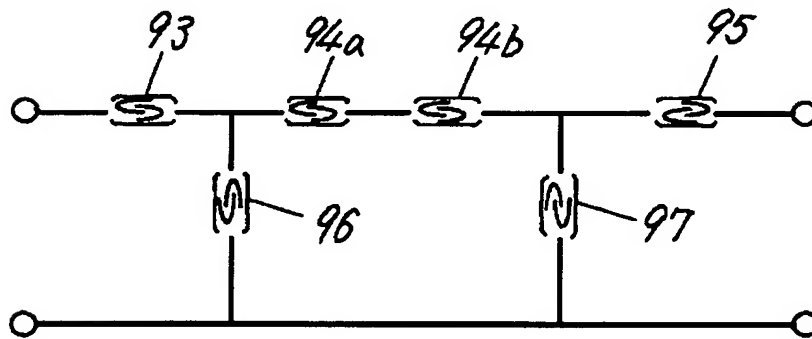


FIG. 10

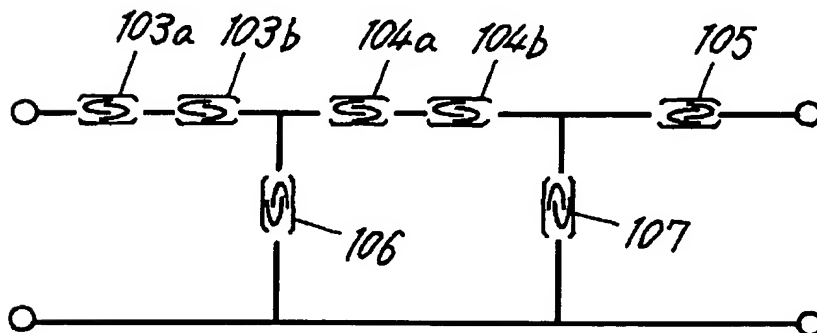


FIG. 11

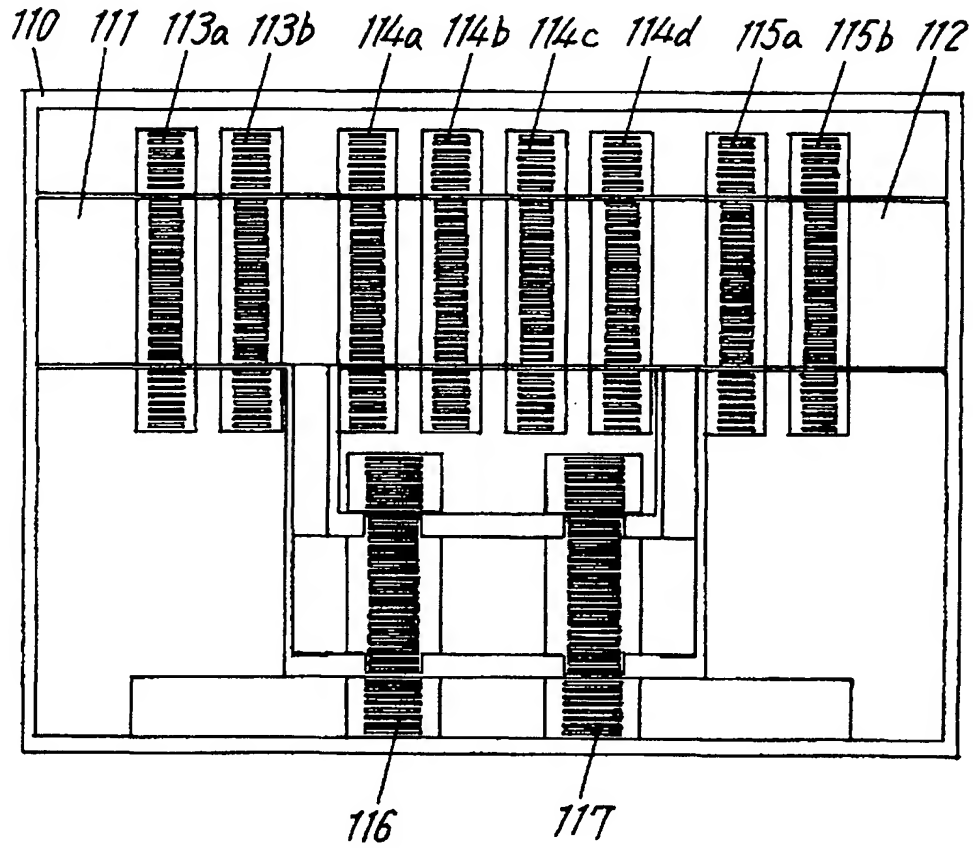


FIG. 12

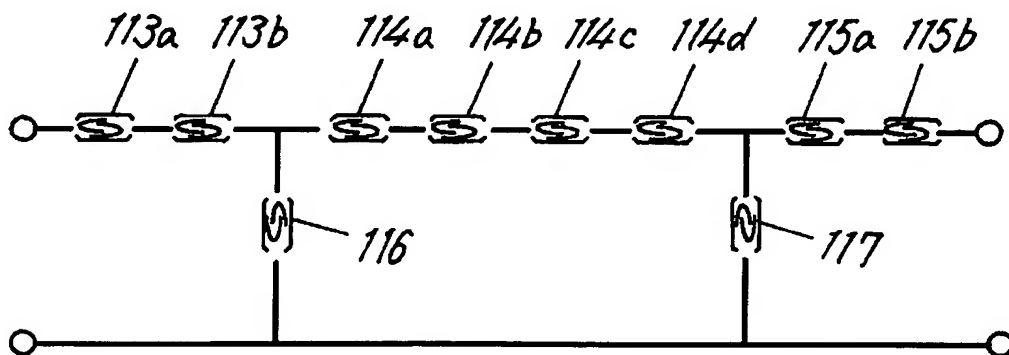


FIG. 13

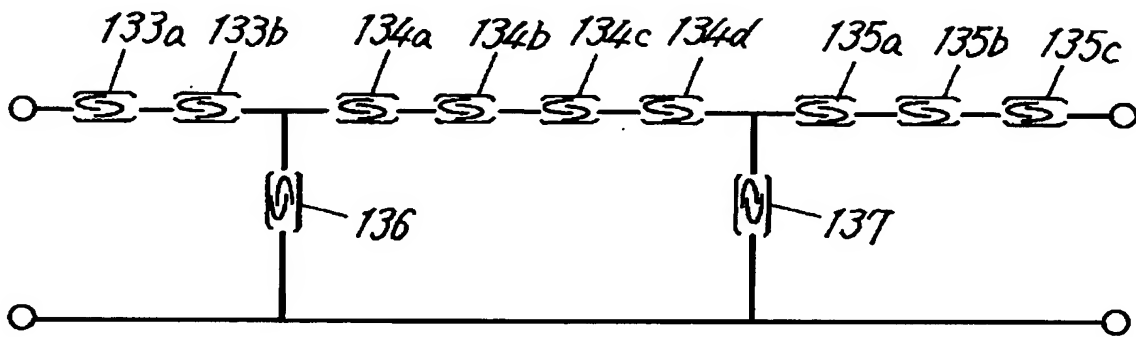


FIG. 14

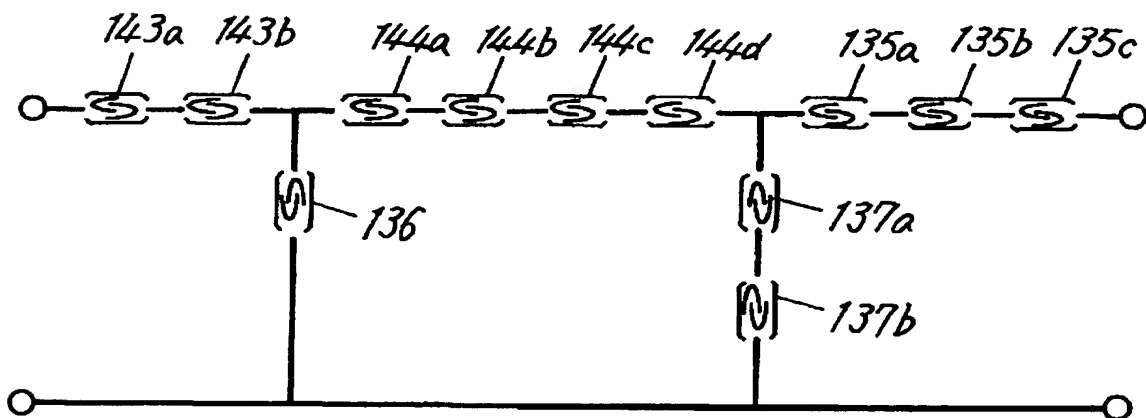
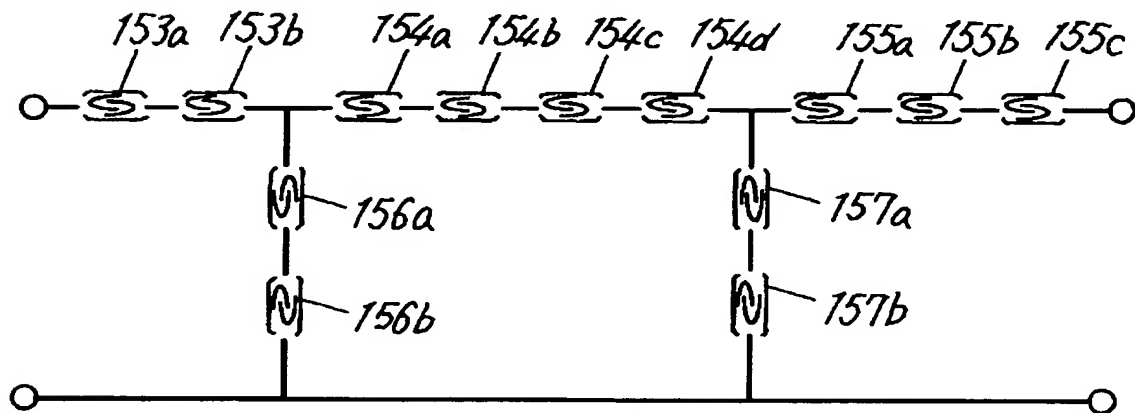


FIG. 15



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FIG. 16

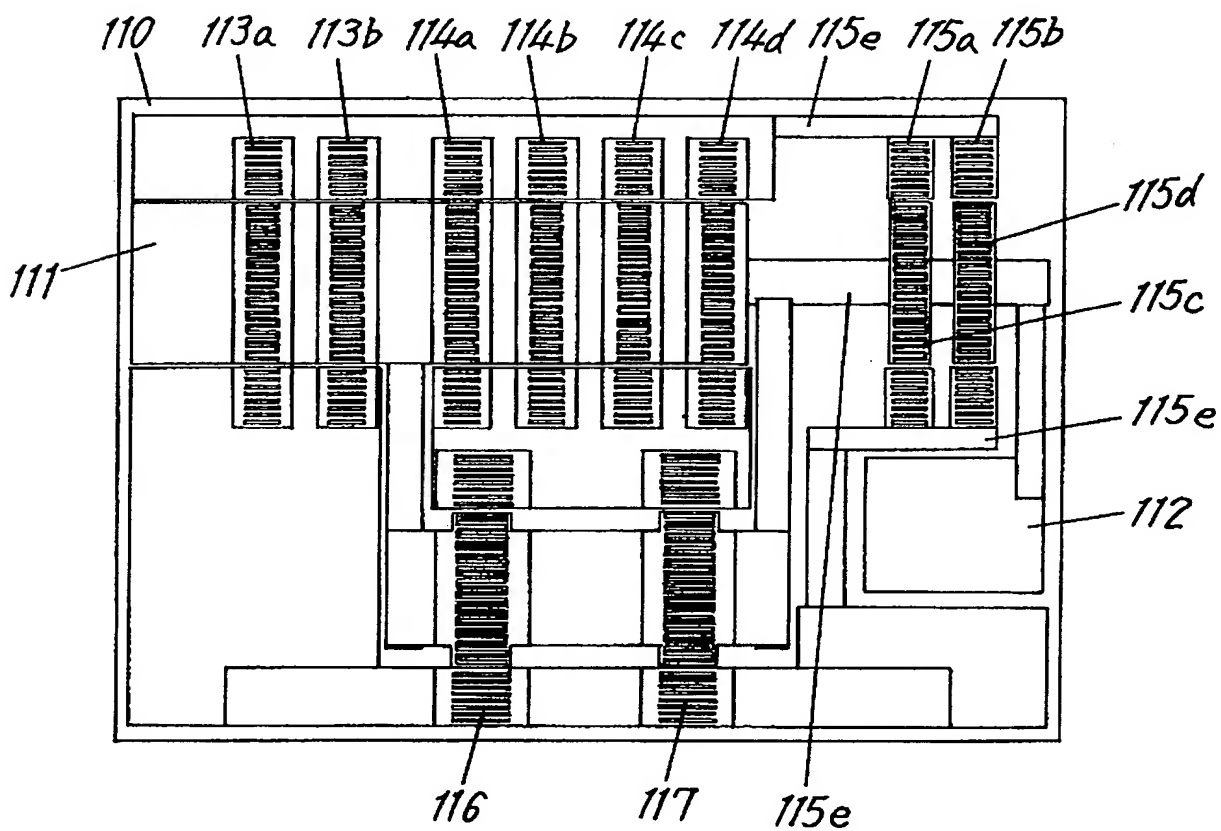


FIG. 17

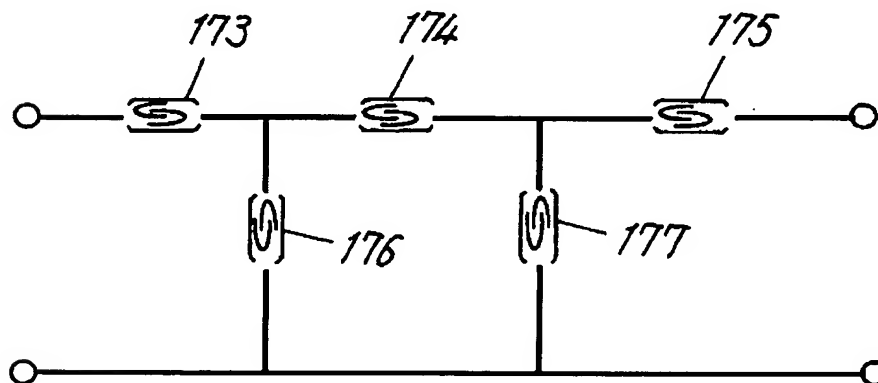


FIG. 18

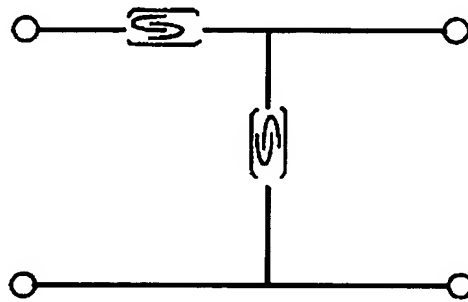


FIG. 19

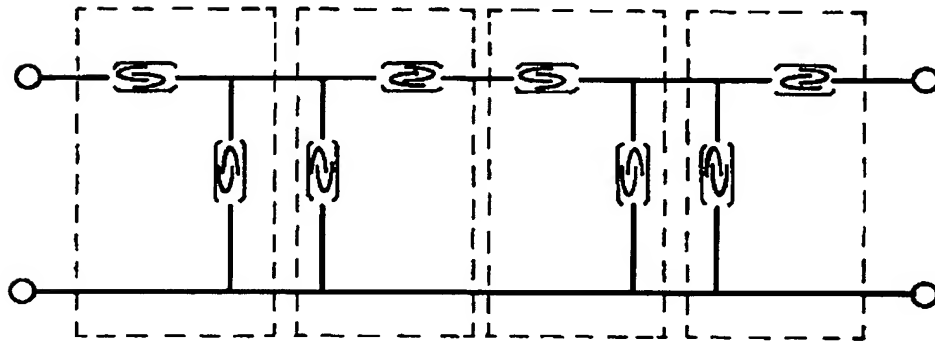


FIG. 20

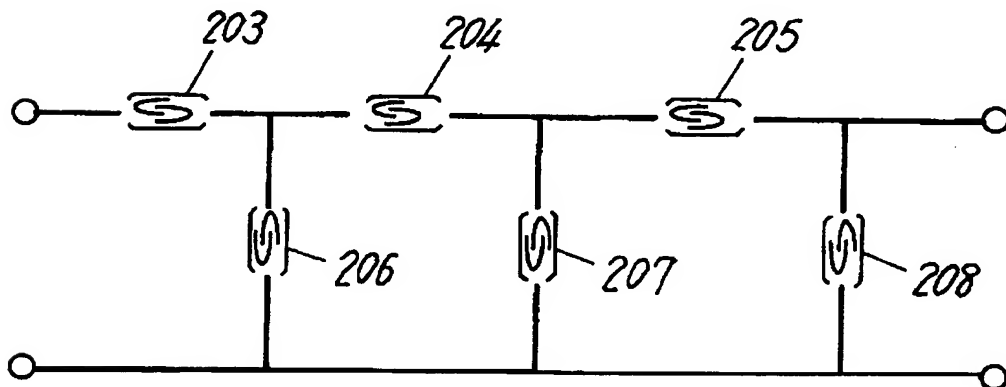


FIG. 21

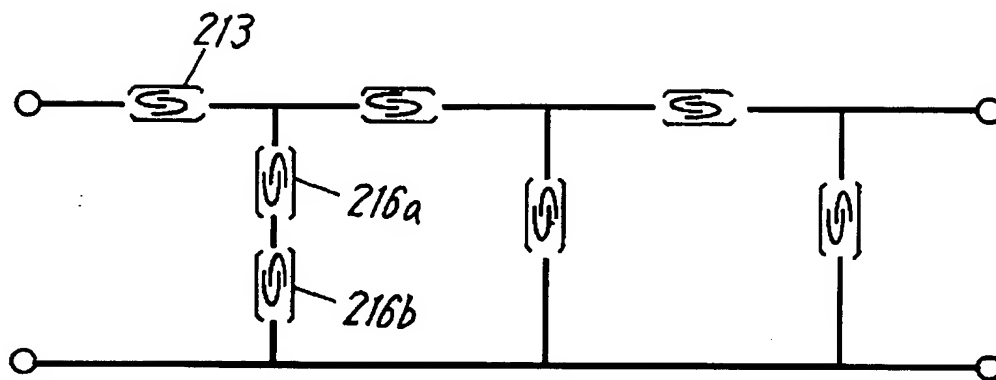


FIG. 22

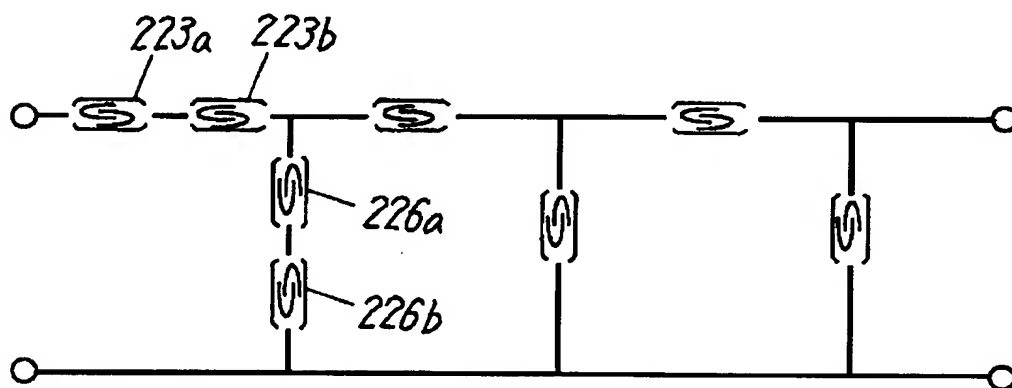


FIG. 23

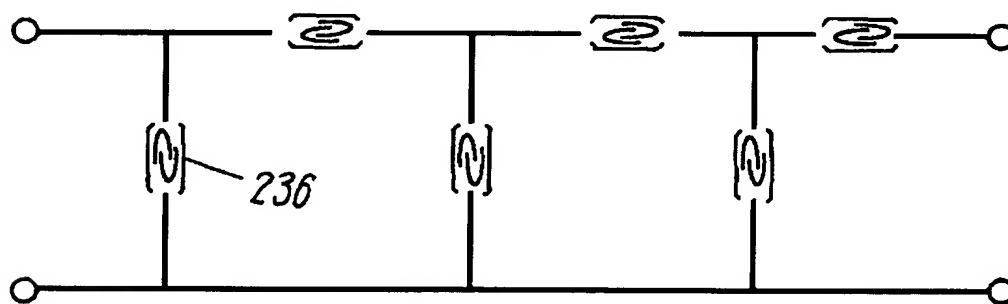


FIG. 24

	SAW Resonator No.	Relative Capacitance	SAW Resonator No.	Relative Capacitance	SAW Resonator No.	Relative Capacitance	SAW Resonator No.	Relative Capacitance	SAW Resonator No.	Relative Capacitance
FIG. 6 Comparative Example 1	63	1	64	1	65	1	66	1	67	1
FIG. 5 Embodiment 1	43	1	44a 44b	2 2	45a 45b	2 2	46	1	47	1
FIG. 9 Comparative Example 2	93	1	94a 94b	2 2	95	1	96	1	97	1
FIG. 10 Comparative Example 3	103a 103b	2 2	104a 104b	2 2	105	1	106	1	107	1

FIG. 25

	Antenna Terminal and Output Terminal Both 50Ω-Terminated		Antenna Terminal Opened, and Output Terminal 50Ω-Terminated	
	Withstand Voltage (dBm)	Deteriorating SAW Resonator No.	Withstand Voltage (dBm)	Deteriorating SAW Resonator No.
FIG. 6 Comparative Example 1	32	64	≤ 30	64
FIG. 5 Embodiment 1	36	44a	33	45b
FIG. 9 Comparative Example 2	33	96	30	96
FIG. 10 Comparative Example 3	33	106	30	106

FIG. 27

	Antenna Terminal 50Ω-Terminated, and Output Terminal 50Ω-Terminated		Antenna Terminal Opened, and Output Terminal 50Ω-Terminated	
	Withstand Voltage (dBm)	Deteriorating SAW Resonator No.	Withstand Voltage (dBm)	Deteriorating SAW Resonator No.
FIG. 17 Comparative Example 5	28	174	≤ 27	174
FIG. 11 Embodiment 2	33	113a	30	115b
FIG. 13 Embodiment 3	33	133a	31	137
FIG. 14 Embodiment 4	33	143a	32	134d
FIG. 15 Embodiment 5	33	153a	32	154d
FIG. 16 Comparative Example 4	33	113a	28	115d

FIG. 28

	Antenna Terminal and Output Terminal Both 50Ω-Terminated		Antenna Terminal Opened, and Output Terminal 50Ω-Terminated	
	Withstand Voltage (dBm)	Deteriorating SAW Resonator No.	Withstand Voltage (dBm)	Deteriorating SAW Resonator No.
FIG. 20 Embodiment 6	33	None	30	206
FIG. 21 Embodiment 7	33	None	31	213
FIG. 22 Embodiment 8	33	None	32	226a
FIG. 23 Comparative Example 6	31	236	28	236

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FIG. 29
Prior Art

